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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/553,256	10/11/2005	Yoshihisa Naito	TPP 31784	1812
24257 STEVENS DA	7590 07/11/2007 VIS MILLER & MOSHE.	R LLP	EXAMINER	
1615 L STREET, NW			QAZI, SABIHA NAIM	
SUITE 850 WASHINGTON, DC 20036		ART UNIT	PAPER NUMBER	
			1616	
		•		
			MAIL DATE	DELIVERY MODE
			07/11/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/553,256	NAITO ET AL.			
Office Action Summary	Examiner	Art Unit .			
	Sabiha Qazi	1616			
The MAILING DATE of this communication app	pears on the cover sheet with the c	correspondence address			
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period value of the reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 17 A	<u>pril 2007</u> .				
2a)⊠ This action is <b>FINAL</b> . 2b)☐ This					
)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-15</u> is/are pending in the application.	,				
4a) Of the above claim(s) is/are withdraw					
5) Claim(s) is/are allowed.	•				
6)⊠ Claim(s) <u>1-15</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	or election requirement.				
Application Papers					
9) The specification is objected to by the Examine	er				
10) The drawing(s) filed on is/are: a) acc	•	Examiner.			
Applicant may not request that any objection to the	•				
Replacement drawing sheet(s) including the correct		• • • • • • • • • • • • • • • • • • • •			
11) ☐ The oath or declaration is objected to by the Ex	kaminer. Note the attached Office	Action or form PTO-152:			
Priority under 35 U.S.C. § 119		•			
12) Acknowledgment is made of a claim for foreign	priority under 35 H Ś C -8 119/a	)-(d) or (f)			
a) ☐ All b) ☐ Some * c) ☐ None of:	priority difact of c.c.c. 3 1 10(a)	, (a) 3. (.).			
1. ☐ Certified copies of the priority document	s have been received.				
2. Certified copies of the priority document		on No			
3. Copies of the certified copies of the prior					
application from the International Bureau	u (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a list	of the certified copies not receive	ed.			
Attachment(s)	A) 🔲 1-4 1 0	(DTO 442)			
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Li Interview Summary Paper No(s)/Mail Da				
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application			

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## **Non-Final Office Action**

Claims 1-15 are pending. No claim is allowed at this time. Amendments are entered.

# Summary of this Office Action dated 07/9/2007

- 1. Information Disclosure Statement
- 2. Copending Applications
- 3. Specification
- 4. 35 USC § 103 (a) Rejection
- 5. Response to Remarks
- 6. Conclusion
- 7. Communication

## **Information Disclosure Statement**

The listing of references in the specification is not a proper information disclosure 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609.04(a) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

#### **Copending Applications**

Applicants must bring to the attention of the examiner, or other Office official involved with the examination of a particular application, information within their knowledge as to other copending United States applications, which are "material to patentability" of the application in question. MPEP 2001.06(b). See Dayco Products Inc. v. Total Containment Inc., 66 USPQ2d 1801 (CA FC 2003).

#### **Specification**

The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

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#### Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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Claims 1-15 rejected under 35 U.S.C. 103(a) as being unpatentable over HESSE et al. (US 5,472,957), DeLuca et al (WO 90/01321) and TJONDRONEGORO et al. (J. Dairy Sci, IDS reference). Both the reference individually teaches the treatment of osteoporosis by vitamin D compounds without hypercalcimia, which embraces Applicant's claimed invention.

HESSE et al teaches a method of treating osteoporosis, hypocalcaemia or bone disease by vitamin D. The reference also teaches veterinary applications of the vitamin D compounds, which includes the prevention of hypocalcaemia in domestic animals, for example farmyard animals such as cattle and sheep especially cows and ewes. See the entire document especially claim 7 and 11, abstract, lines 46-67 in column 6,

DeLuca teaches the use of vitamin D compounds for the treatment of osteoporosis. See summary of invention on pages 4 and 5. See last paragraph in example 2 on page 7. The results show insignificant incidence of hypercalcaemia or other metabolic disturbance with vitamin D2 therapy. See Table 2.

TJONDRONEGORO et al. teaches intravaginal delivery of the drugs and treatments. See the entire document especially Table 1 on page 2164, discussion and Tables and 3 on page 2165.

Instant claims differ from the reference in method of administration of vitamin D compound, which are drawn transvaginal administration.

It would have been obvious to one skilled in the art to prepare additional nenficial compositions for the treatment of hypercalcaemia by any method of administration. The examples in the specification have been considered. Applicant is requested to explain more about the comparative study of vaginal administration versus oral administration such as in food. In absence of any criticality and/or unexpected results presently claimed invention is considered obvious over the prior art of record cited above.

Examiner notes, that one vitamin D compound has been used as shown in specification which does not represent all known or unknown vitamin D compounds as claimed. A single species is seldom, if ever, sufficient to support a generic claim. In re Shokal, 242 F.2d 771, 113 U.S.P.Q. 283, 285 (C.C.P.A. 1957). See also, In re Grimme, 274 F.2d 949, 124 U.S.P.Q. 499, 501 (C.C.P.A. 1960) (the naming of a member of a genus or subgenus is not a proper basis for claiming the whole group).

Objective evidence of nonobviousness must be commensurate in scope with the scope of the claims. In re Tiffin, 171 USPQ 294. A showing limited to a single species can hardly be considered probative of the invention's nonobviousness in view of the breadth of the claims.

In the light of the forgoing discussion, the Examiner's ultimate legal conclusion is that the subject matter defined by the instant claims would have been obvious within the meaning of 35 U.S.C. 103(a).

### Response to Remarks

Applicant's arguments were fully considered but were not found persuasive therefore rejection is maintained.

#### Conclusion

2. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

### **Communication**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sabiha Qazi, Ph.D. whose telephone number is 571-272-0622. The examiner can normally be reached on any business day.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Johann Richter, Ph.D. can be reached on 571-272-0646. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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you have questions on access to the Private PAIR system, contact the Electronic

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SABIHA QAZI, PH.D PRIMARY EXAMINER